



SEQUENCE LISTING

<110> GUEGGER, Karl et al

ISOLATED HUMAN KINASE PROTEINS, NUCLEIC  
ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES  
THEREOF

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| aatgtgactt  | tgctggcacc | tgactatfff  | tctttaagag  | atgtttatct  | cttatccfff  | 191460 |
| atattttgtt  | ttgtaaccat | gagtcaagat  | atffffatta  | taatgtccaa  | gtcttttagat | 191520 |
| gggttcctta  | gaagcacagc | ctgagatggg  | tatctggtgc  | atgtatctta  | ttgtggagag  | 191580 |
| ctctaaggat  | gtgggtgtgt | gtatatagag  | tttgggtgtg  | ggttgggggc  | tgtgtccaga  | 191640 |
| taaaaggagc  | tgagcaagga | tgtggtctca  | gctggagact  | agcctcagtc  | tgctcacaca  | 191700 |
| gggagctctg  | gggcatgagt | aacatccacaa | agatggtttt  | accttaagtc  | actcagtcac  | 191760 |
| tggccaggac  | tgeccctggg | gcagagatgt  | ggcatcatct  | tttcagtaag  | gagggcttct  | 191820 |
| ttgatccaag  | aacaattctg | tggagaatag  | agtatctgtg  | tgctgtcagc  | aactgttata  | 191880 |
| ggcttcactg  | agtcctccgt | aaaagccata  | tgttgagacc  | ctaaccacca  | gtacttcaga  | 191940 |
| atgtgactgt  | atgtgaagac | atggctttta  | gagaggtggt  | taaattaaaa  | tgaggctgat  | 192000 |
| aggggtgggt  | ctaagccaat | ctgactgtgt  | cctcataaga  | agaggagatt  | aggcttttca  | 192060 |
| atgatcgcca  | ttctaactgg | catgagacgg  | tatctcattg  | tggttttgat  | ttgcgtttct  | 192120 |
| ctaataacca  | gtgatgatga | gctttttttt  | atatgtttgt  | tggtcacata  | aatgtcttct  | 192180 |
| tttgagaaga  | gtctgttcat | atccttttgc  | cactttttga  | tagggttgct  | ggagaggatg  | 192240 |
| tggagaaaa   | ggaatgcttt | tacactgttg  | gtgggagtgt  | aaattagtgc  | aaccattgtg  | 192300 |
| gaagacagtg  | tggtgattcc | tcaaggatct  | agaaccagaa  | ataccatttg  | acccagcaat  | 192360 |
| cccattactg  | ggtatatacc | caaaggatta  | taaatcattc  | tactgtaaag  | acacatgcac  | 192420 |
| atgtatgttt  | attgcagcac | tattcacaat  | agcaagacc   | tggaaacaac  | ccaaatgccc  | 192480 |
| aaaaatgata  | gactggataa | agaaaatgtg  | gcacatatat  | aacatggaat  | actatgcagc  | 192540 |
| cataaaaaag  | ggatgagttc | acatcctttg  | aggggacatg  | ggatgaagct  | agaaaccatc  | 192600 |
| attctcagca  | aactaacaca | agaacagaaa  | acaaacact   | gcattgttct  | actcataagt  | 192660 |
| gggagttgaa  | caatgagaac | acatggacac  | agggaggggg  | acatcacaca  | ctggggctctg | 192720 |
| tcaggggggtg | ggggactagg | ggaggggacag | cattaggaga  | aataccta    | gtggatgatg  | 192780 |
| ggttgatggg  | tgcagcaaac | ctgggtgtag  | caaaccatca  | ggacgcgtgt  | gtatccatgg  | 192840 |
| aacaaacctg  | catgttctgc | acatgtatcc  | ccaaacttaa  | agtatacaaa  | aaaaaaaaag  | 192900 |
| aggaataaga  | gattaggaca | cagggacacc  | agggatgtga  | tgacagagg   | atgaccttgt  | 192960 |
| gaagaagcag  | caagagggaa | gccaaggaga  | agggcctcag  | aggaatccaa  | ccctgctggc  | 193020 |
| cccttaactc  | ccaacctcca | gaactctggg  | aaataaattt  | ctattgttta  | aatcacccaa  | 193080 |
| tctgtggtat  | cttctcatta | cagctctggc  | tgacttaata  | cagcagccaa  | catgcacagc  | 193140 |
| agctagcaga  | cgagggtgtg | ccaattatac  | tttggagtgt  | gtctgggaag  | agaatttgtg  | 193200 |
| tggggcattg  | atagtagcca | ctacaccac   | ttacaaatga  | gaacaccgtg  | acccagagaa  | 193260 |
| gtgaagttagc | ccacctgagg | tcacacagcc  | aataagcaac  | ggaggcagaa  | tttgattgcc  | 193320 |
| atctgacctc  | acaggtggtc | ctcctagtca  | ctactttgta  | tcacacttc   | tgttgcaagg  | 193380 |
| cagtttttct  | cagaagcagc | agatgtcacc  | agttaacttt  | gacttcaatt  | tctttttggt  | 193440 |
| ttttgttttg  | ttttgttttg | ttttgttttc  | atctaaattg  | tgcttacctt  | atacaaaatg  | 193500 |
| gagcttctgg  | gggaaattga | ggcaactcag  | cacaatgcct  | atgtctgtgt  | gtcttctcaa  | 193560 |
| agtattgact  | tttaccttat | gtaaaaggta  | aaaaaaaaatc | ttatggtttt  | ggggacgttg  | 193620 |
| tagcatatta  | atcataggtt | tcctatacat  | atgagaaaa   | aatattttta  | tttttaatgt  | 193680 |
| ttttattaaa  | aatgaatttg | agcagttttt  | cacaccacaa  | aatgttattt  | ttgggaaatt  | 193740 |
| aagaaatgct  | ttgatggctg | tcagtgtaat  | acaaataata  | actgtaata   | ttctaagcac  | 193800 |
| tgccactccc  | aatttgtaat | gaatgaacat  | ggtcttcata  | gagggccacat | tgagatacaa  | 193860 |
| gaataaatca  | gtttgttctt | attagagcct  | tataatagcc  | ttgttcagta  | ttttctggct  | 193920 |
| tgggtgtaata | aagccattac | cctcttcaga  | aaactagaaa  | agaaaggaca  | aatagagatg  | 193980 |
| gacatctttt  | ggtagctgcc | ttctgtctgag | ggctcccacc  | acccacccctc | tgtctgcccc  | 194040 |
| atgacagcca  | gctccgcaaa | ctttaatgct  | gaactatgat  | tagatatgca  | gagagaggca  | 194100 |
| gggtgtccgg  | ggcagactct | agggcacctg  | gagaaagctc  | cagcctaaca  | gcatttgctg  | 194160 |
| tcacactctg  | ggtcctcttg | actgagttct  | gggacttgac  | tgagtgggccc | tgacggatgt  | 194220 |
| aactggaagt  | tttagtacga | tgaagacatt  | ttttgcagtt  | cgaaggatatg | actacatctg  | 194280 |
| agataaagt   | tcaaagtatg | tgaaaaagag  | gaaaggggtg  | ggggagtctt  | aggaaaaaca  | 194340 |
| tctgtatctc  | cttctctctc | tcagcttccc  | ctctccacgt  | tactctccca  | aaggattagt  | 194400 |
| taattctttg  | tatatgatat | tatgtggcaa  | tttgaagtc   | cttatctctt  | agagatttat  | 194460 |
| gtactcattt  | attcagcaag | aagtgtttgg  | tgtctgcttt  | gaatcatgtg  | ttggggatac  | 194520 |
| catggtaagc  | aggatgggtg | tggcctctgc  | cctcctggag  | cttaccatct  | acctggaata  | 194580 |
| ttagaaggga  | tttttatctt | agcagacata  | aagtgccagt  | cattgtgctg  | aattagtggg  | 194640 |
| tctcaaacct  | aagggtgcat | caggatcacc  | tggagagctt  | gtcaaaccac  | acattgctgg  | 194700 |
| accttcaccc  | cagtttctga | ttcagtaggt  | tggagggtata | ggcaaatttg  | gaaattttta  | 194760 |



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|-------------|-------------|-------------|-------------|-------------|-------------|--------|
| tttttaataa  | gagcccaggt  | gatgttgttc  | ttgctattct  | ggggaccacc  | ctttaagaac  | 194820 |
| cattctggga  | agcctgtcac  | atggatttgc  | ttaaggcatt  | ctaattggta  | aaaccatctg  | 194880 |
| ggatgggtgg  | gggcccacag  | gctgagatct  | tctaaatgtc  | taaaaggaac  | taagttcctt  | 194940 |
| tagaggaaac  | ttgggtttct  | cttcaggcaa  | agttcctgtt  | ttatgaaaac  | actctttttt  | 195000 |
| aaaaaaattg  | ttaatgtata  | tgtggatcgt  | tttagcagtt  | taaagagcta  | atgcagtaga  | 195060 |
| tgaagtgaca  | gggagttttt  | catttaacag  | ttgcatctgt  | atgtcatttt  | ctcctcgaag  | 195120 |
| gttctataag  | atagagcaat  | agttctcaaa  | gtgtgtttcc  | agacgagtgg  | catagttaga  | 195180 |
| aatgcagaat  | ctcaagcccc  | attccagacc  | tactgaatca  | gaaacactgg  | gtgtgggagc  | 195240 |
| aagaatctgt  | tttaacaagg  | cttccagctg  | attctgaggc  | acactcaagt  | ttgacacatc  | 195300 |
| tgagatagat  | ggtagtgaga  | actaggtcca  | ggctgaatct  | gattctccca  | gctcccttaa  | 195360 |
| gacggtttac  | caggatgact  | aagcttcagt  | ttttctatct  | cgtaagtcaa  | aagtctatcc  | 195420 |
| cttggtgtct  | aatatctttc  | agagctacaa  | gaaagataat  | catgaccttt  | ctgaaatggt  | 195480 |
| tttactagca  | aagatgaaaa  | tttctaacta  | accataaata  | gacttattca  | gtgaaagaaa  | 195540 |
| ggggattcag  | atgcagcagt  | gtgaccttgc  | gttggtcatt  | agcttgtctg  | aaccttactt  | 195600 |
| ttcctatctg  | aaaagtgggc  | agaaaaatgt  | cattctagtc  | tacattgaag  | agttgttgca  | 195660 |
| aagatcaaat  | ggtatctttg  | tgctattaaa  | tggtatcaaa  | tttttgtggt  | atcaaagtga  | 195720 |
| tatcagcatg  | ctttttaaac  | tgtaaaatgc  | acacaaatat  | aaagattata  | actttgggct  | 195780 |
| gctcaccctt  | agctttgttc  | ttttctatca  | acaaaaatgg  | agtagttgaa  | ttactttatc  | 195840 |
| ctctatggag  | attttaagta  | atlttagacaa | ctaatagcac  | agtaactcga  | gctctttctaa | 195900 |
| ggtaaaagttt | ttcttacggt  | tatgttttgt  | ctttaacata  | caaagggtga  | aatatgtaga  | 195960 |
| aatagtataa  | aatcttttag  | atltttattat | actgtatact  | cttatttgaa  | ctagtcacat  | 196020 |
| tctagagcag  | tgattctgag  | agggcagcct  | cttaaccagc  | agcatcagca  | tcagctggga  | 196080 |
| acttgtgagt  | aatgcagatt  | ctcaggtacc  | acaccagacc  | tgctgaatca  | gcaagtcttg  | 196140 |
| gggtgggacc  | cagagatccg  | ttttaacaag  | cccacaggtg  | atcctgatgc  | tcacacaagt  | 196200 |
| cttagagaaa  | ggcatittatt | tgggtcttaa  | ttgaaggatc  | tgataaaaggc | catcattttc  | 196260 |
| ctggaacagg  | gtgatgtctt  | cgttttttcca | gcattggattt | gaaacatctg  | tgtccaaact  | 196320 |
| cgtgcagcca  | ttattggatt  | ccttcataaa  | cacattctgt  | tactgcttgc  | ctggcataca  | 196380 |
| gaagatctgg  | aatgccactc  | cagtataccc  | attatgaggc  | tgacttcagg  | gtgcaaggaa  | 196440 |
| attaaagctg  | tttatcagac  | tcttttcccc  | ttagtgcag   | gagaaaggaa  | tcttaagcta  | 196500 |
| agaaggcttc  | aagttgggtc  | tatgtatgaa  | aaacatgagg  | cgtgacaaac  | acagtttgaa  | 196560 |
| cggacttacg  | ttttttttga  | cttttccctt  | tgaaaaatgaa | aatgagtcct  | tttgtgggca  | 196620 |
| gcaccaaatt  | agtgggtgctt | acttaagaaa  | tactggagac  | agattcattc  | cagtttgttt  | 196680 |
| cataacttag  | gtggcagaat  | ggcaacttttc | cctggccact  | tctttccctc  | ttccccctct  | 196740 |
| aggaggaaat  | cttaggtagg  | agagggaag   | ggactaaggc  | tgtctgtaca  | caatgagcta  | 196800 |
| cgttttggga  | agaggagctt  | agtgttttaa  | caaaagaaag  | gtttgtctgt  | gttgtagaga  | 196860 |
| tatgacttgg  | tccactgcct  | atgtttgtaa  | ataaagtltt  | attgggacat  | agccacactc  | 196920 |
| atlttatttat | gtattgtctg  | ttttcacact  | acaaaggcag  | agttgggtag  | ttgtgacaga  | 196980 |
| gaccacgtaa  | tctgcaaaag  | ctaaaattgt  | tttactatct  | agccctttac  | agaacatatt  | 197040 |
| tgtcaacccc  | ccttgcaag   | gtttcttctg  | agctgcttga  | aggaaacctt  | gacggaatca  | 197100 |
| gtggacagga  | aggacagtgg  | gaggtgaaca  | gtgtggtgaa  | atgcctgcgg  | gttcctgtgg  | 197160 |
| agtcacaga   | aaggaaacca  | cagagaggcg  | agattccata  | ttgccatttt  | cagttggggt  | 197220 |
| cagtatggat  | tttgagaaat  | tattctattt  | aaaataaata  | aataatttta  | acttgagtat  | 197280 |
| atatttgcga  | ttgtctaata  | cagtcataca  | ctgcataaca  | atctatttgt  | caatgacaga  | 197340 |
| ctgcatgtac  | aatgggtggtc | cagttaatga  | agctgaaaaa  | ttcccaacac  | ctagtgtat   | 197400 |
| catagccatc  | ataacattgc  | agagcaacat  | agccactcac  | atacttgttg  | tgatgctggg  | 197460 |
| taaaataaacc | tactacactg  | ccagtcatat  | aaaagtgtaa  | tgcataat    | tatgtacagt  | 197520 |
| atagtgatga  | caaatgactg  | ttactgcttt  | atgtattttac | tatacttttt  | ttttttgagg  | 197580 |
| tgtgggtctca | ctctgttacc  | cagtctggag  | tgcagtggca  | cgatctcggc  | tactgcac    | 197640 |
| ctccaccttc  | caggctcaag  | tgatcctccc  | acttcagcct  | cccagttac   | cgggaccaca  | 197700 |
| ggtgtgcgcc  | accacacca   | gctaattttt  | tgtatttttg  | gtaaagatgg  | ggtttctcca  | 197760 |
| tggtgcccag  | gctgttctcg  | aactcctgac  | ctctggtgat  | ctgcctgcct  | cggcctgcc   | 197820 |
| aagtgtctgg  | attataggag  | tgagccacca  | tgccctggctt | gctatacttt  | ttatcatttt  | 197880 |
| tctaaagtgt  | actccttcta  | cttattaaaa  | aaaatttaact | gtaaaacagc  | cttgggcagg  | 197940 |
| tccttcggga  | ggtatttcag  | aagaaggcac  | tgttatcaca  | gtagatggag  | gctccgtgtg  | 198000 |
| tgttactgcc  | cctagagacc  | ttgtagtggg  | acaagatgtg  | gaggtggaag  | acagtggtat  | 198060 |
| cagtgatcct  | gacgctgtgt  | agcagtagac  | taatgtgtat  | gtttgtgtct  | tcatttttaa  | 198120 |
| caaaatagtt  | gaaaaagaaa  | aagaaagaaa  | aatgcttat   | tgactatctc  | ctagtttaga  | 198180 |

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|-------------|-------------|-------------|-------------|-------------|-------------|--------|
| gagatatgaa  | aaaaagaaaa  | tatttttcgta | cagctgtaca  | atgtgtttgt  | gttttaagct  | 198240 |
| aagtgttatt  | acaatagagt  | caagaagttt  | aaaaaatgta  | cagtaagctg  | cttaatttat  | 198300 |
| tattgaagaa  | gggaaaacat  | tttttataaa  | tgtagtgtag  | cctaagtgtc  | cagtgtttat  | 198360 |
| aagctctgtag | tagcgtacag  | taatgttcta  | ggccttcgca  | ttcactcacc  | actcactcac  | 198420 |
| tgactcacc   | agagcaactt  | ccagtcctgc  | gtgctccatt  | catggtaaca  | gccctgtaca  | 198480 |
| gatgtgccat  | ttaaaaaatc  | ttttatactg  | tatttttact  | gtacattttt  | aatgttaaga  | 198540 |
| tacacaagta  | cttaccactg  | tattacaatt  | gtctacagta  | ttcagtgtag  | taacatgctg  | 198600 |
| tacagggttg  | tagcctagga  | gcaataggct  | ataccacata  | aacatagatg  | tgtagttagt  | 198660 |
| tataccatcg  | aggtttgtaa  | taagtacact  | ctatgatgtt  | cacacaatga  | tgaaatcacc  | 198720 |
| tgaatgacat  | attcctcaga  | acatatcctc  | gttggttaagt | gatgcatgac  | ttattttctt  | 198780 |
| ctgggtgttg  | gtgttacagg  | aaaaactact  | gagtgtttgc  | cttatttgat  | acatactttg  | 198840 |
| catccattat  | actatgtaat  | gttcacaaca  | attccatgag  | atgaatatta  | tcattctttat | 198900 |
| tttatagatg  | agaaaactga  | agtgcagaaa  | gcttaaataa  | cacagtgtta  | cagagctatt  | 198960 |
| gctagaggct  | tgattttaa   | gcagattttg  | tttttatgcc  | aaagccagca  | ttctaaagga  | 199020 |
| gtgtttctga  | atgttggcct  | ctctagctag  | gttgggggtg  | ttttcaaact  | gcaggttgag  | 199080 |
| aggtcagttt  | agtgagttgc  | aaccagcatt  | aaaaaataa   | ttgaacagga  | tgaaaaacac  | 199140 |
| cagagtgtgt  | catatgtagt  | ttgggtaaat  | aggtcttggg  | gtatgaaact  | tttgtttcga  | 199200 |
| ctataaagat  | atttataaac  | atacatatat  | aagcacattt  | ctgtgcactg  | ggcaacaatg  | 199260 |
| taaatgatat  | ttcttaccat  | gtcgtagtgt  | gaaagccaag  | ggagtggaca  | aggagggaatg | 199320 |
| aagataaaga  | aaaaatggga  | gagcaagagg  | gaaaaatatg  | aatgagttag  | agaatgaata  | 199380 |
| actgtcaaag  | ggacaaagag  | actcgagagg  | gagaggaagt  | agaaaagagt  | ggggaaagag  | 199440 |
| ggagaatgga  | caactcagag  | aaagagacac  | agagattcag  | ggagagttga  | gggtgggcaa  | 199500 |
| gagaaggaag  | acatcatatg  | gttctgtctt  | tcattccact  | cagcaagcac  | atgtccctac  | 199560 |
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| gattctcttg  | tcgttctcag  | tgtaagtaaa  | atgaagatct  | ttattaacat  | ggcttctagt  | 199680 |
| cattacagca  | aaaagacacc  | tgacgtttta  | tgtttatcac  | aacacaattc  | acaattgcaa  | 199740 |
| ggatatggaa  | ccaacataac  | tgcccatcac  | tgatgagtgg  | ataaagaaaa  | tgtggcatat  | 199800 |
| atacaccatg  | caatactact  | cagccatttaa | aaaaagaatg  | aaatactgtc  | ttttgcagca  | 199860 |
| acctggatgg  | agctggaggc  | cattatttcta | agtgaagtaa  | ctcaggaatg  | gaaaacccaa  | 199920 |
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| tgggataatg  | gactttggag  | actcagaagg  | gaggagggtg  | ggaggggagg  | aagggataaa  | 200040 |
| agactacata  | ttgggtacag  | tgtatactac  | tcgggtgagg  | tgactaaaa   | tctcagactt  | 200100 |
| caccactaca  | aaagtcaccc  | atgtaaccaa  | aaaccacttg  | tatgcaaaag  | gtattgaagt  | 200160 |
| tctatatgca  | tgtacatatg  | tgtataggta  | tgttatatat  | atatgtgtac  | atacagacac  | 200220 |
| gtgcagggtg  | cttcttgata  | taatgactag  | aagccacgtt  | taataaaaaat | aatatatatt  | 200280 |
| atttcaatat  | aaataataaa  | aataataaaa  | actatggctt  | ctccataaca  | gtattctatc  | 200340 |
| tcactctgtg  | ctcagctgaa  | aatcagtgat  | ctgaactgat  | gtgaaaaaaa  | aaaatacgtc  | 200400 |
| gtgttgaaat  | tgctgagaga  | aggtatgaga  | tccttagtac  | actgctttct  | aaggaaactgg | 200460 |
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| tgtacagcag  | ccttttatgt  | tttagtgagg  | aaccatagat  | aacaaacaca  | ttttaacatc  | 200580 |
| ttctatttcc  | agggaaattct | acatccatta  | agtatcttac  | tttcaaagga  | ttctggactc  | 200640 |
| attttaatgaa | aagcccattt  | gtacagactt  | ggaaattgag  | tgaacatttg  | tatgaaactt  | 200700 |
| ccctgcatac  | cgatgctttc  | atgagaattc  | tattactcaa  | tctcagcagc  | cactctacta  | 200760 |
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| acaaaatttt  | atctaaaaag  | tgggaagagc  | agattctagc  | cttgattttc  | tgaccccaaa  | 200880 |
| tttcatattt  | ttcccactag  | accagaaaata | gcaacaatag  | attgaaaaat  | aatgtgtttac | 200940 |
| aatttggaag  | aaaaatttta  | attttaagtc  | tgagtatggg  | gcaaagtcta  | aaatgcccat  | 201000 |
| tgttttgctg  | cagctgagta  | ttctaatttt  | ctcctcccc   | agcccaaggg  | tagttgtttg  | 201060 |
| ggtagttctt  | tatttctagc  | ccccatttag  | ttaattatat  | tgttatgctt  | tcttgtgac   | 201120 |
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 Tyr Ser Pro Glu Leu Ala Glu Leu Ile Arg Thr Met Leu Ser Lys Arg  
 225                                   230                      235                      240  
 Pro Glu Glu Arg Pro Ser Val Arg Ser Ile Leu Arg Gln Pro Tyr Ile  
                                  245                      250                      255  
 Lys Arg Gln Ile  
                                  260

<210> 6  
 <211> 416  
 <212> PRT  
 <213> Mus musculus

<400> 6  
 Tyr Cys Tyr Met Arg Val Val Gly Arg Gly Ser Tyr Gly Glu Val Thr  
 1                                   5                      10                      15  
 Leu Val Lys His Arg Arg Asp Gly Lys Gln Tyr Val Ile Lys Lys Leu  
                                  20                      25                      30  
 Asn Leu Arg Asn Ala Ser Ser Arg Glu Arg Arg Ala Ala Glu Gln Glu  
                                  35                      40                      45  
 Ala Gln Leu Leu Ser Gln Leu Lys His Pro Asn Ile Val Thr Tyr Lys  
                                  50                      55                      60  
 Glu Ser Trp Glu Gly Gly Asp Gly Leu Leu Tyr Ile Val Met Gly Phe  
 65                                   70                      75                      80  
 Cys Glu Gly Gly Asp Leu Tyr Arg Lys Leu Lys Glu Gln Lys Gly Gln  
                                  85                      90                      95  
 Leu Leu Pro Glu Ser Gln Val Val Glu Trp Phe Val Gln Ile Ala Met  
                                  100                      105                      110  
 Ala Leu Gln Tyr Leu His Glu Lys His Ile Leu His Arg Asp Leu Lys  
                                  115                      120                      125  
 Thr Gln Asn Val Phe Leu Thr Arg Thr Asn Ile Ile Lys Val Gly Asp  
                                  130                      135                      140  
 Leu Gly Ile Ala Arg Val Leu Glu Asn His Gly Asp Met Ala Ser Thr  
 145                                   150                      155                      160  
 Leu Ile Gly Thr Pro Tyr Tyr Met Ser Pro Glu Leu Phe Ser Asn Lys  
                                  165                      170                      175  
 Pro Tyr Asn Tyr Lys Ser Asp Val Trp Ala Leu Gly Cys Cys Val Tyr  
                                  180                      185                      190  
 Glu Met Ala Thr Leu Lys His Ala Phe Asn Ala Lys Asp Met Asn Ser  
                                  195                      200                      205  
 Leu Val Tyr Arg Ile Ile Glu Gly Lys Leu Pro Pro Met Pro Lys Val  
                                  210                      215                      220  
 Tyr Ser Thr Glu Leu Ala Glu Leu Ile Arg Thr Met Leu Ser Arg Arg  
 225                                   230                      235                      240  
 Pro Glu Glu Arg Pro Ser Val Arg Ser Ile Leu Arg Gln Pro Tyr Ile  
                                  245                      250                      255  
 Lys His His Ile Ser Leu Phe Leu Glu Ala Thr Lys Ala Lys Thr Ser  
                                  260                      265                      270

Lys Asn Asn Val Lys Asn Cys Asp Ser Arg Ala Lys Pro Val Ala Ala  
 275 280 285  
 Val Val Ser Arg Lys Glu Glu Ser Asn Thr Asp Val Ile His Tyr Gln  
 290 295 300  
 Pro Arg Ser Ser Glu Gly Ser Ala Leu His Val Met Gly Glu Asp Lys  
 305 310 315 320  
 Cys Leu Ser Gln Glu Lys Pro Val Asp Ile Gly Pro Leu Arg Ser Pro  
 325 330 335  
 Ala Ser Leu Glu Gly His Thr Gly Lys Gln Asp Met Asn Asn Thr Gly  
 340 345 350  
 Glu Ser Cys Ala Thr Ile Ser Arg Ile Asn Ile Asp Ile Leu Pro Ala  
 355 360 365  
 Glu Arg Arg Asp Ser Ala Asn Ala Gly Val Val Gln Glu Ser Gln Pro  
 370 375 380  
 Gln His Val Asp Ala Ala Asp Glu Val Asp Ser Gln Cys Ser Ile Ser  
 385 390 395 400  
 Gln Glu Lys Glu Arg Leu Gln Gly Asn Thr Lys Ser Ser Asp Gln Pro  
 405 410 415